CLAIMS

1. A method, comprising:

transmitting a measurement request from a first device to a second device, the measurement request directing the second device to take one or more measurements of a wireless channel;

receiving at the first device, a measure report in response to the request, the report comprising measured values for each of the one or more measurements;

wherein the measurement request indicates at least one directional parameter and at least one timing parameter for the one or more measurements.

2. The method of claim 1, wherein the at least one directional parameter includes:

a remote device towards which the one or more measurements are to be directed; and

a beam through which the second device is to perform the one or more measurements.

3. The method of claim 1, wherein the at least one timing parameter includes a start time for the one or more measurements.

4. The method of claim 3, wherein the at least one timing parameter further includes a duration of a measurement period, and a number of measurements to be taken during the measurement period.

5. The method of claim 1, wherein the measurement request indicates a measurement type for the one or more measurements.

6. The method of claim 5, wherein the measurement type is an Average Noise plus Interference Power Indicator (ANIPI).

7. The method of claim 5, wherein the measurement type is a Received Signal to Noise Indicator (RSNI).

8. The method of claim 1, further comprising allocating a wireless resource based at

least on the measurement report.

9. The method of claim 8, wherein allocating the wireless resource comprises allocating one or more time slots within a time interval.

10. An apparatus, comprising:

a transceiver module to exchange wireless signals with one or more remote devices; and

a measurement module to perform one or more measurements of a wireless channel in accordance with a measurement request message received from a remote device through the transceiver module;

wherein the measurement request indicates at least one directional parameter and at least one timing parameter for the one or more measurements.

11. The apparatus of claim 10, wherein the measurement module is to transmit a measurement report to the remote device through the transceiver module, the report comprising measured values for each of the one or more measurements.

12. The apparatus of claim 10, wherein the at least one directional parameter includes:

a remote device towards which the one or more measurements are to be directed; and

a beam through which the second device is to perform the one or more measurements.

13. The apparatus of claim 10, wherein the at least one timing parameter includes a start time for the one or more measurements.

14. The apparatus of claim 13, wherein the at least one timing parameter further includes a duration of a measurement period, and a number of measurements to be taken during the measurement period.

15. The apparatus of claim 10, wherein the measurement request indicates a measurement type for the one or more measurements.

16. The apparatus of claim 10, wherein the measurement type is an Average Noise plus Interference Power Indicator (ANIPI).

17. The apparatus of claim 10, wherein the measurement type is a Received Signal to Noise Indicator (RSNI).

18. An apparatus, comprising:

a transceiver module to exchange wireless signals with one or more remote devices; and

a resource allocation module to

transmit a measurement request to a remote device through the transceiver module, the measurement request directing the second device to take one or more measurements of a wireless channel, and

receive at the first device, a measure report in response to the request, the report comprising measured values for each of the one or more measurements;

wherein the measurement request indicates at least one directional parameter and at least one timing parameter for the one or more measurements.

19. The apparatus of claim 18, wherein the resource allocation module is to allocate a wireless resource based at least on the measurement report.

20. The apparatus of claim 19, wherein the wireless resource includes a time slot within a time interval.

CLAIMS

1. A method, comprising:

transmitting a measurement request from a first device to a second device, the measurement request directing the second device to take one or more measurements of a wireless channel;

receiving at the first device, a measure report in response to the request, the report comprising measured values for each of the one or more measurements;

wherein the measurement request indicates at least one directional parameter and at least one timing parameter for the one or more measurements, wherein the at least one timing parameter includes a start time for the one or more measurements, a duration of a measurement period, and a number of measurements to be taken during the measurement period;

wherein the at least one directional parameter includes an identifier of a remote device towards which the one or more measurements are to be directed, and an identifier of a beam through which the second device is to perform the one or more measurements.

2. The method of claim 1, wherein the measurement request indicates a measurement type for the one or more measurements.

3. The method of claim 2, wherein the measurement type is an Average Noise plus Interference Power Indicator (ANIPI).

4. The method of claim 2, wherein the measurement type is a Received Signal to Noise Indicator (RSNI).

5. The method of claim 1, further comprising allocating a wireless resource based at least on the measurement report.

6. The method of claim 5, wherein allocating the wireless resource comprises allocating one or more time slots within a time interval.

7. An apparatus, comprising:

a transceiver configured to exchange wireless signals with one or more remote devices; and

a measurement module configured to perform one or more measurements of a wireless channel in accordance with a measurement request message received from a remote device through the transceiver;

wherein the measurement request indicates at least one directional parameter and at least one timing parameter for the one or more measurements,

wherein the at least one directional parameter includes an identifier of a remote device towards which the one or more measurements are to be directed, and an identifier of a beam through which the second device is to perform the one or more measurements, and

wherein the at least one timing parameter includes a start time for the one or more measurements, a duration of a measurement period, and a number of measurements to be taken during the measurement period.

8. The apparatus of claim 7, wherein the measurement module is configured to transmit a measurement report to the remote device through the transceiver, the report comprising measured values for each of the one or more measurements.

9. The apparatus of claim 7, wherein the measurement request indicates a measurement type for the one or more measurements.

10. The apparatus of claim 9, wherein the measurement type is an Average Noise plus Interference Power Indicator (ANIPI).

11. The apparatus of claim 9, wherein the measurement type is a Received Signal to Noise Indicator (RSNI).

12. An apparatus, comprising:

a transceiver configured to exchange wireless signals with one or more remote devices; and

a resource allocation module configured to

transmit a measurement request to a remote device through the transceiver, the measurement request directing the remote device to take one or more measurements of a wireless channel, and

receive a measure report in response to the request, the report comprising measured values for each of the one or more measurements;

wherein the measurement request indicates at least one directional parameter and at least one timing parameter for the one or more measurements;

wherein the at least one directional parameter includes an identifier of a further remote device towards which the one or more measurements are to be directed, and an identifier of a beam through which the remote device is to perform the one or more measurements, and wherein the at least one timing parameter includes a start time for the one or more measurements, a duration of a measurement period, and a number of measurements to be taken during the measurement period.

13. The apparatus of claim 7, wherein the resource allocation module is configured to allocate a wireless resource based at least on the measurement report.

14. The apparatus of claim 13, wherein the wireless resource includes a time slot within a time interval.